



WIN-KARE Technology Co.,Ltd

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IR Dimmer 0-10V specification

IR Dimmer IRD 0-10V (010) or 1-10V (110)

I. Product features:

WK-IRD010/IRD110 is a safe isolation standard 0/1-10V intelligent dimming controller, using the current most advanced PWM (Pulse Width Modulation) digital brightness regulation technology, used to control a variety of dimming LED drivers with 0/1-10V dimming signal and tunable optoelectronic ballast. Realize the brightness adjustment of LED lamps. It supports manual knob to adjust brightness stepless, and wireless remote dimming and switching with infrared remote controller. The dimming range is 1-100%, zero off, with brightness hotkey (25%, 50%, 75%, 100%) and 1-4 hours timing function.

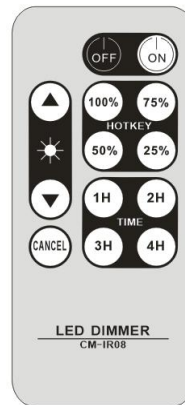
II. Technical Specifications:

1. Maximum switching load power: 110V 1000W, 220V 2000W
2. Power supply voltage: 100-240VAC Frequency: 50/60Hz
3. Output circuit: 2 parallel synchronous adjustable
4. Safety isolation circuit design is adopted to protect the load from damage due to voltage fluctuations;
5. With relay design: 10A, realize reliable shutdown (completely turn off the light).
6. Effective dimming signal current: $\leq 250\text{mA}$
7. Adjust voltage: 0.5-10V, turn off the light at 0V
8. Dimming range: 1-100% stepless dimming, no strobe
9. Output Voltage: Optional standard 0-10V or 1-10V signal (default is 0-10V output)
10. 100% compatible with the market with standard 0/1-10V dimming signal driver, special functions can be customized according to customer requirements
11. With indicator light, red light indicates turn off/standby, red light indicates normal operation, red light flashing indicates received instruction during remote control operation
12. Standard type 86 panel, size 86*86mm
13. Specifications of remote control:

Standby current: $\leq 2\mu\text{A}$

Remote control distance: less than or equal to 3 meters in the case of dry scratching, need to control the dimmer

Size: 86*40*7(mm)



Control mode:

Support a variety of control methods (knob, infrared remote control), to meet different use habits

III. Instructions for Use:

Instruction: first connect the load and signal lines, then connect the AC input lines. Before power on, make sure that there is no short circuit phenomenon between the connecting lines.

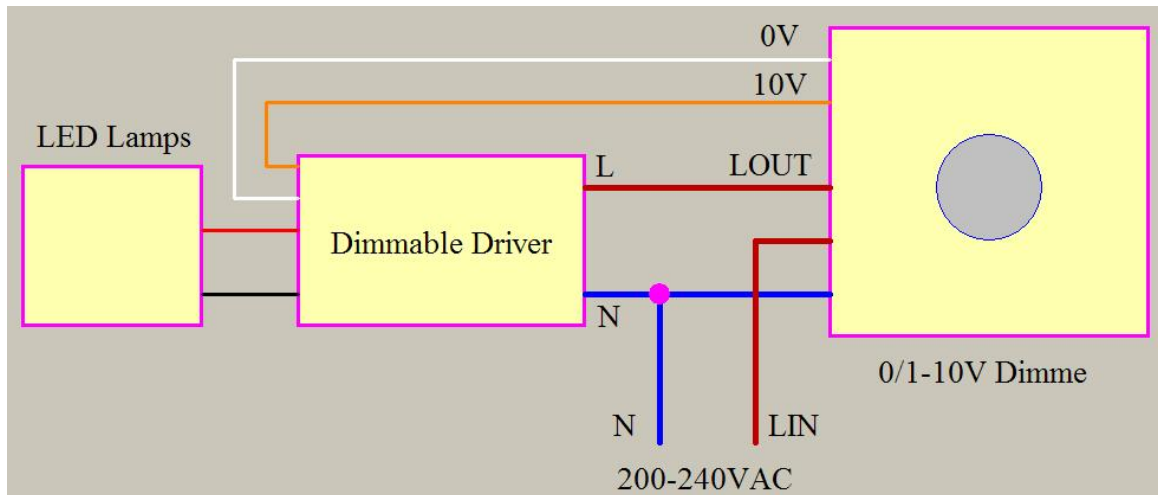
1. N is the zero line, shared
2. L IN for fire line input



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- 3、 L OUT is the firewire output, connected to the input L end of the 0-10V dimming LED driver
- 4、 Dimming signal output, 0V for the common end, two 10V adjustable signal, can be arbitrarily connected to one of the road
- 5、 When the power is on for the first time or after the power is cut off, the default state is the initial setting. Press the remote control to turn on the light or switch on the light



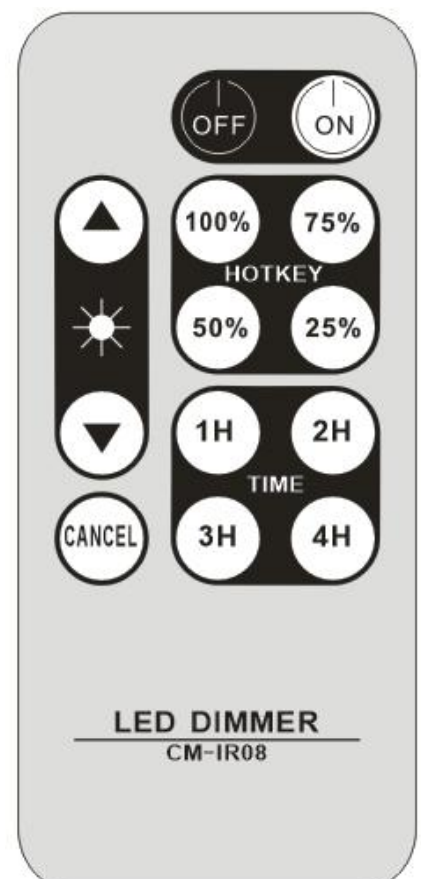
6. Knob control:
 1. Panel knob: turn the knob clockwise to increase the brightness, turn the knob counterclockwise to reduce the brightness, turn off the light at least, the red indicates on after turning off the light;
7. Remote control:

7. Function description of the remote control keys

- (1) OFF: remote control to turn OFF the light, press this button, the light slowly dim to extinguish, the red indicator light on;
- (2) ON: remote control to turn ON the light, press this button, the light slowly changes to the brightest or the brightness before the remote control to turn off the light, the red indicator light off;

- (3)  Long press this button, the brightness will increase slowly, and after release, the brightness will be maintained to the current level

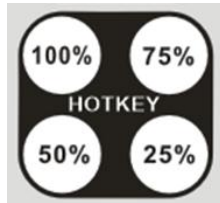
- (4)  Long press this button, the brightness gradually decreases, release can be maintained to the current brightness



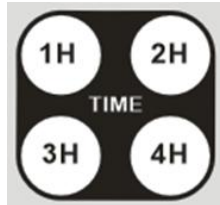


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- (5) Brightness hot key to quickly select the required brightness



- (6) Timed light off function: 1H means that the lights will be turned off after 1 hour, 2H means that the lights will be turned off after 2 hours, 3H means that the lights will be turned off after 3 hours, and 4H means that the lights will be turned off after 4 hours. When the button of Timed Light Off is pressed, the red LED indicator light flashes at the frequency of 1S to remind the user that it is the mode of Timed Light Off at this time.



- (7) Timed light off function cancel button, in the Timed light off mode, if press this button, the timing function will be canceled, the red LED indicator will be off.